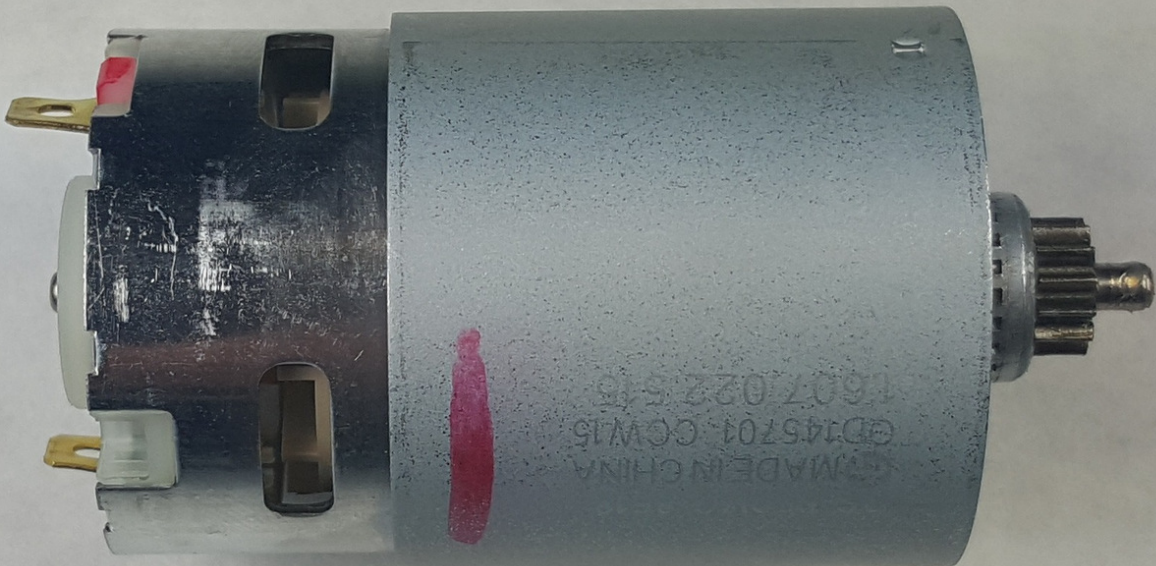




Bosch PS21 Motor Replacement

This guide will help you replace the motor in your Bosch PS21 Cordless Drill

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INTRODUCTION

If the motor becomes faulty, it can be replaced in a simple manner. Bosch offers a way to purchase a new component for replacement. Make sure you have a flat, clean working surface on which to disassemble the drill. After that, a few simple tools and a little effort and you will be well on your way!




TOOLS:

- [T8 Torx Screwdriver](#) (1)
 - [Small Needle Nose Pliers](#) (1)
 - [Metal Spudger](#) (1)
 - [Tweezers](#) (1)
 - [Basic Pliers](#) (1)
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Step 1 — Battery



 Remove the battery prior to working on the drill

- Pinch the two release tabs on the sides of the battery.
- Slide the battery out of the PS21.

Step 2 — Motor




- After removing the 12.0 V battery pack, put it in a safe place away from the working area. Set the Bosch PS21 on a clean and level surface with the information label and screw cavities facing upward.

Step 3



- Locate the clip that connects the two halves of the outer casing on the rear edge of the battery shaft. *Use the angled tweezers to remove the clip.
- Place the tweezers in the groove on the inside of the clip. Use your other hand to firmly brace the drill and pull towards your body until the clip comes loose.

 The clip is firmly placed, so this will take some effort. Take care not to pull so hard that you put yourself or others at risk of injury. If a portion of the clip becomes exposed, you can use the pliers to remove it completely.

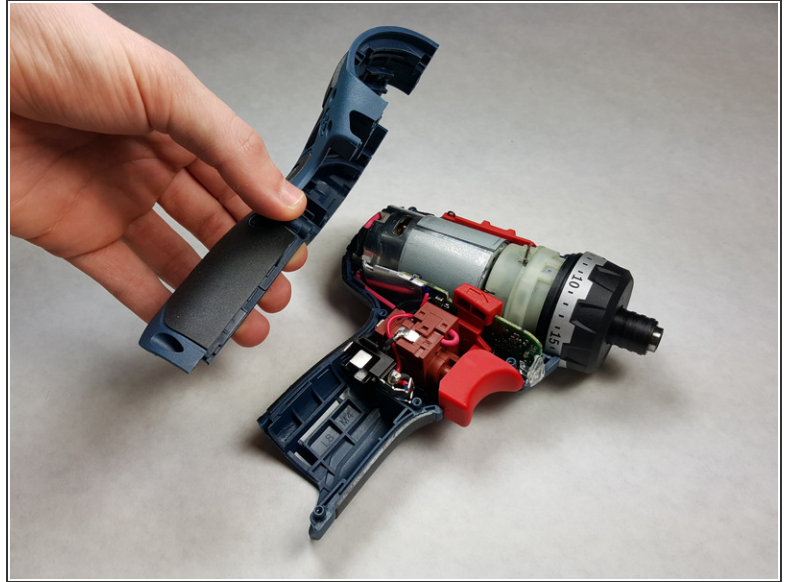
- After successfully removing the clip, set it to the side in a safe place.

Step 4



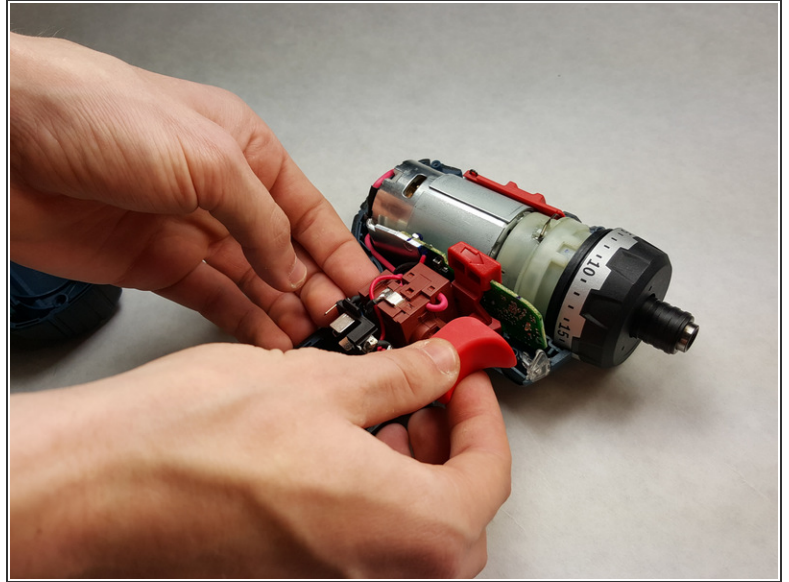
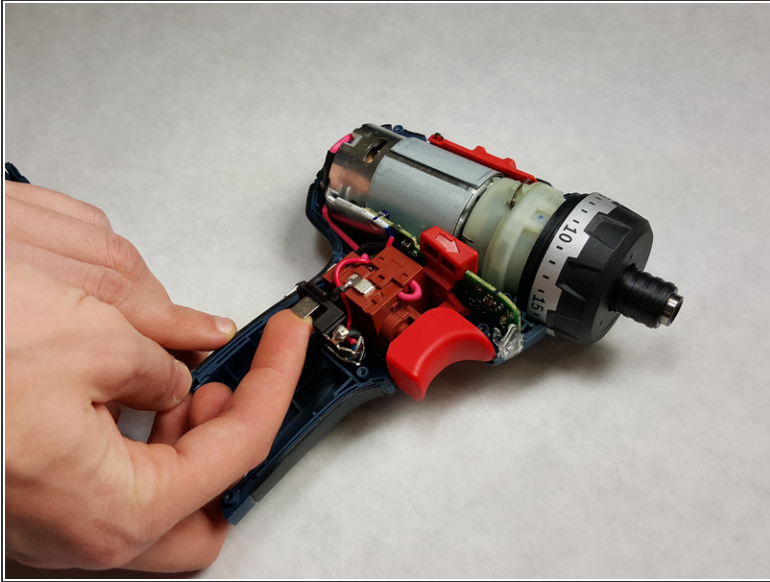
- Locate the eight 5.5 mm screws.
- Remove each screw using the T8 Torx driver, set aside in a safe place.

Step 5




- Starting at the rear of the drill, use a metal spudger to carefully pry apart the outer case.
- Remove the upper portion of the outer case.

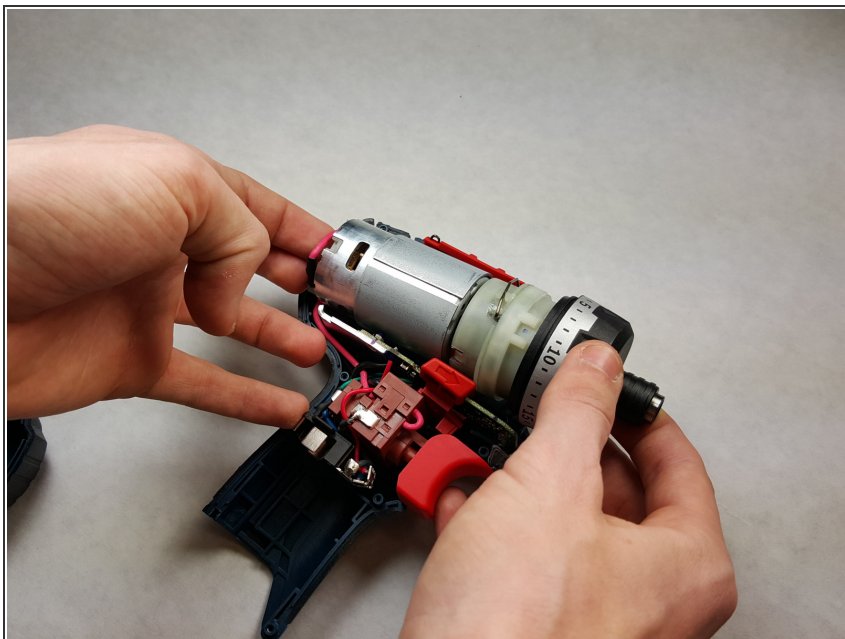
Step 6



- Lift up the metal tab on the battery connector to free the trigger assembly.
- Gently dislodge the trigger assembly from the case but do not remove it completely.

 Two wires connect the trigger mechanism to the motor. Do not try to remove the trigger mechanism abruptly from the drill case. The motor and trigger mechanism will be taken out together in the next step.

Step 7



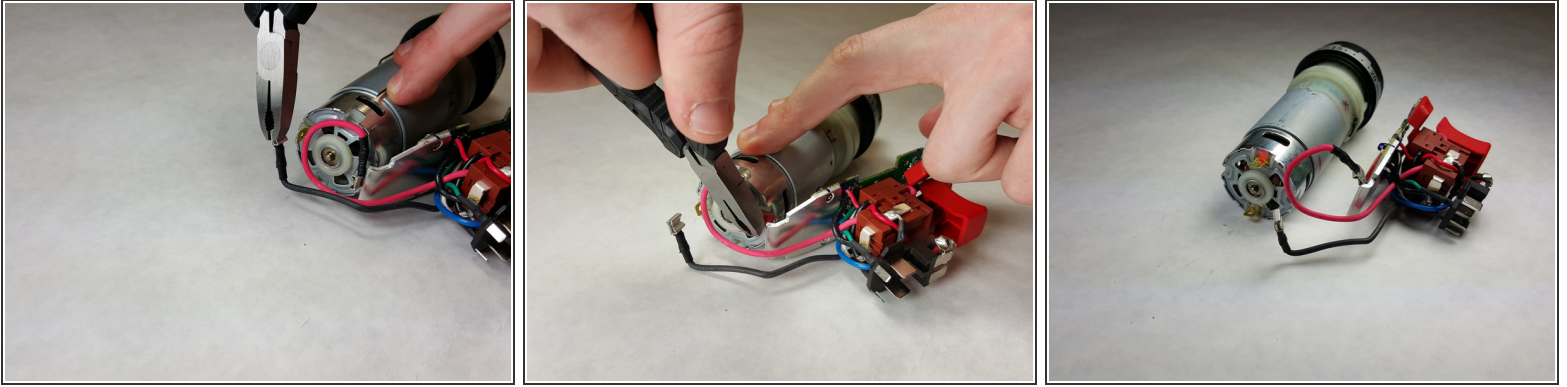
- Gently remove the motor from its position in the drill case.
- Both the trigger mechanism and motor can now be removed from the case. Remove and set aside on a nearby flat surface.

Step 8



- Remove the LED light cover and set it to the side. If you plan to replace immediately, the piece will rest in its groove on the bottom half of the case.

Step 9



- Firmly secure the motor assembly in place. Using a set of pliers, carefully pull the black wire lead off.
- ⚠ Be sure to not grip the pliers too firmly as it will make it hard to pull off the lead and could cause damage to the ends.
- Firmly secure the motor assembly in place. Using a set of pliers, carefully pull the red wire lead off.
- ⓘ The wire connections on the motor are color coded, so it should be easy to see where to reconnect them when putting the drill back together.

Step 10



- Once the wires have been disconnected, separate the trigger mechanism from the motor assembly.
- Using one hand one each end, carefully pull apart the assembly to separate the gearbox from the motor.

Step 11



- Connect new motor to chuck by pushing pieces together.
- Reconnect the red and black wires to the motor.
- Place motor and trigger assembly into the drill case. Push the battery tab back in.
- Place the half of the drill that was aside back on top of the half with the motor. Push together until off sides are flush together.
- Insert the eight screws into the drill housing. Tighten using the T8 Torx driver.
- Using the angled pliers, insert the clip that was removed in step 2. Make sure the clip is seated in the slot properly.
- Insert battery and pull trigger to test function.

To reassemble your device, follow these instructions in reverse order.

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